Ontario

Ministry of
Northern Development
and Mines

Mines and
Minerals
Division

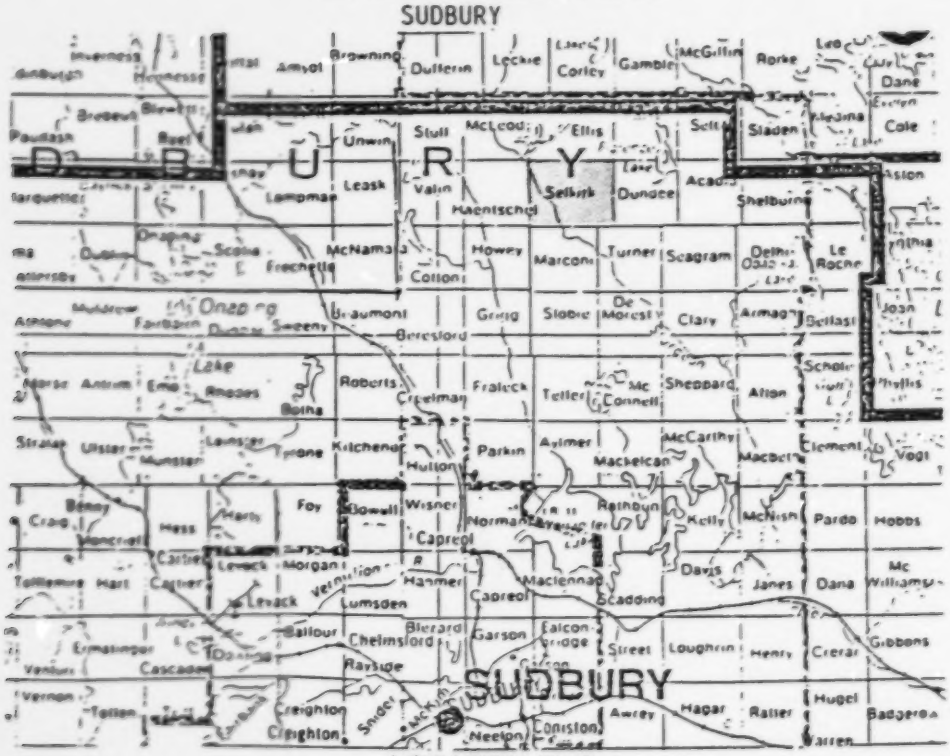
# GEOLOGICAL DATA INVENTORY FOLIO
## GDIF 563

# SELKIRK TOWNSHIP

Sudbury Mining Division

41 P/2

**Compiled by the staff of**
**the Resident Geologist's Office**




LOCATION MAP

CANADA ONTARIO
Mineral Development Agreement
Entente sur la mise en valeur des ressources minérales

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

90-04572/

Mining Claim Map Number G.4102

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1990. Selkirk Township, Geological Data Inventory Folio 553; compiled by the staff of the Resident Geologist's office, Sudbury.

Original Compilation by: Jerome, Lucille January 1990

| Date | Page(s) Revised | Revised by |
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ACCOMPANYING MAPS (see map legends on outside back cover).


A. Files Index Map (s) ..... Map A-1

B. Exploration Data Map (s) ..... Map B-1

# ABBREVIATIONS LIST

| | |
|---|---|
| A.F.R.O. | Assessment Files Research Office (Toronto) |
| Ann. Rept. (A.R.) | Annual Report |
| A.R.I.P. | Aggregate Resources Inventory Paper |
| Bull. | Bulletin |
| C.I.M.M. | Canadian Institute of Mining and Metallurgy |
| C.J.E.S. | Canadian Journal of Earth Sciences |
| C.M.J. | Canadian Mining Journal |
| Econ. Geol. | Economic Geology |
| E.M.R. | Department of Energy, Mines and Resources |
| E.P.B. | Earth Physics Branch |
| G.A.C. | Geological Association of Canada |
| GC | Geological Circular |
| GDIF | Geological Data Inventory Folio |
| Geol. | Geology |
| Geol. Soc. Amer. Bull. | Geological Society of American Bulletin |
| GR | Geoscience (Geological) Report |
| GSC | Geological Survey of Canada |
| I.L.S.G. | Institute on Lake Superior Geology |
| IMR | Industrial Mineral Report |
| I.O.C. | Report of the Iron Ore Committee (1923) |
| Jour. (or J) | Journal |
| MDC | Mineral Deposit Circular |
| M.D.I. (R) | Mineral Deposit Inventory (Record) |
| Mem. | Memoir |
| MNDM | Ministry of Northern Development and Mines |
| MNR | Ministry of Natural Resources |
| MP | Miscellaneous Paper |
| MRC | Mineral Resources Circular |
| N.M.I. | National Mineral Inventory |
| NOEGTS | Northern Ontario Engineering Geology Terrain Study |
| NTS | National Topographic System |
| O.B.M. | Ontario Bureau of Mines |
| O.D.L.F. | Ontario Department of Lands and Forests |
| ODM | Ontario Department of Mines/Ontario Division of Mines |
| ODMNA | Ontario Department of Mines and Northern Affairs |
| OFR | Open File Report |
| OGS | Ontario Geological Survey |
| P.R. | Preliminary Report |
| Prelim. (or P) | Preliminary |
| R.C. | Royal Commission on Mineral Resources of Ontario (1890) |
| S.M.D.R. | Source Mineral Deposit Record |
| SOEGTS | Southern Ontario Engineering Geology Terrain Study |
| Sum. Rept. | Summary Report |

*

# DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

| | SOURCES OF DATA | Data | Initial |
|---|---|---|---|
| 1 | Resident Geologist's Office Files | YES | L.J. |
| 2 | Assessment Files Research Office, Toronto | N.A. | L.J. |
| 3 | OGS/ODM General Index | YES | L.J. |
| 4 | Catalogue of Airborne Geophysical Surveys (ODM) | NO | L.J. |
| 5 | ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars | NO | L.J. |
| 6 | ODM Industrial Mineral Reports | NO | L.J. |
| 7 | Bibliography of Post Precambrian Theses - Karrow (ODM MP 1) | N.A. | L.J. |
| 8 | Bibliography of Precambrian Theses - Ginn (ODM MP 2) | NO | L.J. |
| 9 | Newspaper Clippings File | NO | L.J. |
| 10 | GSC Index to Publications | NO | L.J. |
| 11 | OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77 | YES | L.J. |
| 12 | OGS Index Maps | YES | L.J. |
| 13 | Source Mineral Deposit Records (OGS) | YES | L.J. |
| 14 | Author - Subject Articles File | YES | L.J. |
| 15 | ODM/OGS Miscellaneous Papers | NO | L.J. |
| 16 | ODM Geological Circulars | NO | L.J. |
| 17 | OGS Study Series | NO | L.J. |
| 18 | ODM Preliminary Reports | NO | L.J. |
| 19 | ODM Bulletins | NO | L.J. |
| 20 | ODM/OGS Open File Reports | YES | L.J. |
| 21 | OGS Northern/Southern Ontario Engineering Geology Terrain Studies | YES | L.J. |
| 22 | OGS Aggregate Resources Inventory Papers | NO | L.J. |
| 23 | OGS Mineral Potential Maps | YES | L.J. |
| 24 | Drill Core Library Catalogue | N.A. | L.J. |
| 25 | Theses on File | YES | L.J. |
| 26 | Aerial Photographs on File | NO | L.J. |
| | | | |
| * | | | |

SELKIRK

# MINERAL COMMODITIES REFERENCE LIST

anh ..... Anhydrite
ank ..... Ankerite
ap ..... Apatite
arg ..... Argentite
As ..... Arsenic
asp ..... Arsenopyrite
asb ..... Asbestos
ba ..... Barite
be ..... Beryl
Bi ..... Bismuth
bn ..... Bornite
Cd ..... Cadmium
calc ..... Calcite
carb ..... Carbonate
cc ..... Chalcocite
cp ..... Chalcopyrite
ch ..... Chert
clay ..... Clay
Co ..... Cobalt
cob ..... Cobaltite
▲ Cu ..... Copper
cor ..... Corundum
dol ..... Dolomite
ep ..... Epidote
fel ..... Feldspar
fl ..... Fluorite (flurospar)
fu. ..... Fuchsite
gn. ..... Galena
gt. ..... Garnet
goe ..... Goethite
▲ Au ..... Gold
gf ..... Graphite

gl ..... Gravel
gyp ..... Gypsum
hem ..... Hematite
Fe ..... Iron
IF ..... Iron Formation
jas ..... Jasper
ky ..... Kyanite
▲ Pb ..... Lead
lim ..... Limonite
Li ..... Lithium
mgst ..... Magnesite
mag ..... Magnetite
mc ..... Malachite
Mn ..... Manganese
mb ..... Marble
mar ..... Marcasite
ma ..... Marl
mi ..... Mica
mo ..... Molybdenite
Mo ..... Molybdenum
mon ..... Monazite
ne .... Nephelite (nepheline)
Ni .. ..... Nickel
Nb ..... Niobium
Pd ..... Palladium
pent ..... Pentlandite
Pt ..... Platinum
py ..... Pyrite
pyl ..... Pyrochlore
po ..... Pyrrhotite
q ..... Quartz
qcv .. Quartz carbonate vein

ra ..... Radioactive minerals
RE ..... Rare Earths
sd ..... Sand
sgl ..... Sand and gravel
ss ..... Sandstone
scap ..... Scapolite
shee ..... Scheelite
serp ..... Serpentine
sh ..... Shale
sid ..... Siderite
si ..... Silica
▲ Ag ..... Silver
sl ..... Slate
sm ..... Smaltite
sod ..... Sodalite
spec ..... Specularite
sp ..... Sphalerite
spd ..... Spodumene
s ..... Sulphides
talc ..... Talc
Te ..... Tellurium
th ..... Thorite
Th ..... Thorium
ti ..... Titanite
Ti ..... Titanium
tour ..... Tourmaline
W ..... Tungsten
uran ..... Uraninite
U ..... Uranium
verm ..... Vermiculite
Zn ..... Zinc
zr ..... Zircon

ADDITIONS

*

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

| MINERAL OCCURRENCES | | | Source Min. Dep. Record | References in OGS Min. Dep. Cir. and Indus. Mineral Rpts. | Additional References and/or Remarks |
|---|---|---|---|---|---|
| Map Ref. Letter | (see Data Map) Name(s) | Mineralization | | | |
| A | Solace Lake | Pb, Au, Ag, Cu | MDIR 019 | GR 106, p. 99 | |

| TYPE OF WORK (see Files Index Map) Exploration Files | | Numbers below represent the year of the work ; e.g. 68 for 1968 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Airborne | | | Ground | | | | | | | |
| Map Ref. No. | Company/ Author (file number) | Geological | Geochemical | Stripping Trenching or | Drilling | Assay Data | Underground Work | Prospectus Notes Corresp | Mag | EM | Rad | Mag | EM | Rad | IP | Self Potential | Resistivity | Other Data | or footnotes |
| 1 | Mote, G.M. (Selkirk 0010-A1) | | | 73 | | | | | | | | | | | | | | | |

SEE PAGE 13-1,... NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

| DRILLHOLE SUMMARY | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Map Drill Loc. No. | Company Name | Company Drillhole Number | Date Drill-ed | Bearing and Azimuth | Init. Dip of Hole | Over-burden Thick-ness | Hole Length | Log Mineraliza-tion | Assay data in log |
| | | | | | | | | | |

| Map Index No. | AIRBORNE GEOPHYSICAL SURVEY DATA | | Flight Altitude | Flight Line Direct. | Flight Line Spacing |
|---|---|---|---|---|---|
| | -by<br>-for<br>-year | Type of Survey | | | |
| | | | | | |

| Map Site No. | GEOCHEMICAL SURVEY DATA | | By | Reference(s) |
|---|---|---|---|---|
| | Type of survey | Analysis for | | |
| | | | | |

| Map Site No. | GEOCHRONOLOGY DATA — AGE DATING | | | |
|---|---|---|---|---|
| | Method | Material | Reference | Result |
| | | | | |

## AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologist Office

(a) Aerial Photographs

(b) Photomosaics

(c) Satellite Imagery

## TOPOGRAPHIC MAPS (selected)

| Scale | Year | Name and/or Number | By |
|---|---|---|---|
| 1: 50,000 | 1975 | Pilgrim Creek Sheet, 41 P/2 | EMR |
| 1: 100,000 | 1978 | NOEGTS Data Base Map, Maple Mountain, Map 5023, NOEGT Study 89 | OGS, Gartner, J. F. |

| NEWSPAPER CLIPPINGS FILE | | | |
|---|---|---|---|
| PAPER | ISSUE DATE(S) | PAGE | ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT |
| | | | |

# OGS/ODM GENERAL INDEX SEARCH

Words Searched:

MOTE, G.M.
SELKIRK TOWNSHIP
SOLACE LAKE
STURGEON RIVER

| Index Volume | Listing | Report Volume | Part | Page |
|---|---|---|---|---|
| 8 | Selkirk Tp., Sudbury Dist.<br>Geology of the Maple Mt. area<br>Silver/lead/gold | GR106<br>GR106 | | 99 |
| 8 | Solace Lake<br>Selkirk Tp., Sudbury Dist. | GR106 | | 23-24,99 |
| 8 | Solace Lake Lead-Silver Deposit<br>Selkirk Tp., Sudbury Dist.<br>mining property, report on | GR106 | | 99 |

| SELECTED REFERENCES | | | | |
|---|---|---|---|---|
| Author | Date | Title | Reference | Map Scale and/or Reprt/Pages |
| Donovan, J. F. | 1965 | Maple Mountain Sheet | ODM Map P. 301 | 1"=2 mi. |
| GSC | 1965 | Aeromagnetic Map, Pilgrim Creek | Map 1513G | 1"=1 mi. |
| Hadley, D. G. | 1968 | The Sedimentology of the Huronian Lorrain Formation Ontario and Quebec, Canada: Ph. D., Johns Hopkins University | Sudbury Theses File | |
| Lindsey, D. A. | 1969 | Glacial Sedimentology of the Precambrian Gowganda Formation, Ontario, Canada | GSA Bull. 80 | pp. 1685-1702 |
| McIlwaine, W. H., Meyn, H. D., Card, K. D. | 1970 | Operation Maple Mountain, Smoothwater Lake Area | ODM Map P. 584 | 1"=1 mi. |
| Card, K. D., McIlwaine, W. H., Meyn, H. D. | 1973 | Geology of the Maple Mountain Area | ODM GR 106 | with 4 maps |
| Card, K. D., Meyn, H. D. | 1973 | Solace Lake | ODM Map 2258 | 1"=1 mi. |

| SELECTED REFERENCES | | | | |
|---|---|---|---|---|
| Author | Date | Title | Reference | Map Scale and/or Reprt/Pages |
| Springer, J. | 1977 | Ontario Mineral Potential, Gogama Sheet and Part of Ville-Marie Sheet | OGS Map P. 1514 | 1: 250,000 |
| Adlington, R. | 1981 | Selkirk Township, Sudbury Data Series | OGS Map P. 2177 | 1"=1/4 mi. |
| Gupta, V. K. | 1981 | Bouguer Gravity and Generalized Geological Map of Gogama-Gowganda Area | OGS Map P. 2481 | 1: 100,000 |
| Young, G. M. | 1981 | The Early Proterozoic Gowganda Formation, Ontario, Canada. Earth's Pre-Pleistocene Glacial Record | Cambridge University Press | pp. 807-812 |
| Chandler, F. W. | 1986 | Sedimentology of Paleoclimatology of the Huronian (Early Aphebian) Lorrain and Gordon Lake Formations and their Bearing on Models for Sedimentary Copper Mineralization | GSC Paper 86-1A | pp. 121-132 |
| Junnila, R. M. | 1987 | A Bibliography of the Huronian Supergroup 1821-1987 | OFR 5651 | |

| Note # | NOTES |
| --- | --- |
| | |

# ADDENDA

# CONVERSION FACTORS

| Conversion from SI to Imperial | | | Conversion from Imperial to SI | | |
|---|---|---|---|---|---|
| *SI Unit* | *Multiplied by* | *Gives* | *Imperial Unit* | *Multiplied by* | *Gives* |
| | | **LENGTH** | | | |
| 1 mm | 0.039 37 | inches | 1 inch | 25.4 | mm |
| 1 cm | 0.393 70 | inches | 1 inch | 2.54 | cm |
| 1 m | 3.280 84 | feet | 1 foot | 0.304 8 | m |
| 1 m | 0.049 709 7 | chains | 1 chain | 20.116 8 | m |
| 1 km | 0.621 371 | miles (statute) | 1 mile (statute) | 1.609 344 | km |
| | | **AREA** | | | |
| 1 $cm^2$ | 0.155 0 | square inches | 1 square inch | 6.451 6 | $cm^2$ |
| 1 $m^2$ | 10.763 9 | square feet | 1 square foot | 0.092 903 04 | $m^2$ |
| 1 $km^2$ | 0.386 10 | square miles | 1 square mile | 2.589 988 | $km^2$ |
| 1 ha | 2.471 054 | acres | 1 acre | 0.404 685 6 | ha |
| | | **VOLUME** | | | |
| 1 $cm^3$ | 0.061 02 | cubic inches | 1 cubic inch | 16.387 064 | $cm^3$ |
| 1 $m^3$ | 35.314 7 | cubic feet | 1 cubic foot | 0.028 316 85 | $m^3$ |
| 1 $m^3$ | 1.308 0 | cubic yards | 1 cubic yard | 0.764 555 | $m^3$ |
| | | **CAPACITY** | | | |
| 1 L | 1.759 755 | pints | 1 pint | 0.568 261 | L |
| 1 L | 0.879 877 | quarts | 1 quart | 1.136 522 | L |
| 1 L | 0.219 969 | gallons | 1 gallon | 4.546 090 | L |
| | | **MASS** | | | |
| 1 g | 0.035 273 96 | ounces (avdp) | 1 ounce (avdp) | 28.349 523 | g |
| 1 g | 0.032 150 75 | ounces (troy) | 1 ounce (troy) | 31.103 476 8 | g |
| 1 kg | 2.204 62 | pounds (avdp) | 1 pound (avdp) | 0.453 592 37 | kg |
| 1 kg | 0.001 102 3 | tons (short) | 1 ton (short) | 907.184 74 | kg |
| 1 t | 1.102 311 | tons (short) | 1 ton (short) | 0.907 184 74 | t |
| 1 kg | 0.000 984 21 | tons (long) | 1 ton (long) | 1016.046 908 8 | kg |
| 1 t | 0.984 206 5 | tons (long) | 1 ton (long) | 1.016 046 908 8 | t |
| | | **CONCENTRATION** | | | |
| 1 g/t | 0.029 166 6 | ounce (troy)/ ton (short) | 1 ounce (troy)/ ton (short) | 34.285 714 2 | g/t |
| 1 g/t | 0.583 333 33 | pennyweights/ ton (short) | 1 pennyweight/ ton (short) | 1.714 285 7 | g/t |

**OTHER USEFUL CONVERSION FACTORS**

| | | |
|---|---|---|
| 1 ounce (troy) per ton (short) | 20.0 | pennyweights per ton (short) |
| 1 pennyweight per ton (short) | 0.05 | ounces (troy) per ton (short) |

One gram(g) per tonne is equivalent to one part per million (1 ppm)

***Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in cooperation with the Coal Association of Canada.***

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SELKIRK

# MAP LEGENDS

## A. FILES INDEX MAP

**FILE AREAS** **See pages 4-1,2 .... of text**

- ■ Reference number is always inside work area outlined. See listing in text pages.
- ☐ Small area of exploration data
- ☐ File covers whole township or area
- ☐

## B. EXPLORATION DATA MAP

**MINERAL OCCURRENCES: See pages 3-1,2... of text**

- ■ Mineral occurrence at surface, with reference letter
- ☐ Mineral occurrence with shaft, depth given with reference letter
- ☐ Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ Mineralized float with reference letter
- ☐ Mineral occurrence encountered in drilling, with reference letter
- ☐

**DRILLHOLES: See pages 5-1,2... of text**

- ☐ Location of single drillhole, with reference number
- ☐ Location of group of closely spaced drillholes, with reference number
- ☐ Drillhole, exact location uncertain, with reference number
- ☐ Property with underground drillholes in this general area, with reference number
- ☐ Property with drillholes which have not been plotted on map, with reference number
- ☐ Reverse circulation drillhole; churn drilling, with reference number
- ☐

**GEOCHEMICAL: See pages 7-1,2....of text**

- ☐ Geochemical sample site, with reference number
- ☐ Area of geochemical sampling, with reference number
- ☐

**GEOPHYSICAL ANOMALIES**

**Airborne Surveys: See pages 6-1,2... of text**

- ☐ -AM- Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly. Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly. Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly. Conductor axis: definite, probable, possible
- ☐ -AEM- Airborne electromagnetic anomaly. Conductor axis. Location of flight lines uncertain
- ☐ -ARA- Airborne radiometric anomaly

**Ground Surveys**

- ☐ -M- Ground magnetic anomaly
- ☐ VL Ground electromagnetic anomaly. ( VL Vertical loop, HL Horizontal loop VLF Very low freq., Turam; JEM - Crone Em - 16 )
- ☐ -RA- Ground radiometric anomaly
- ☐ -IP- Induced polarization anomaly
- ☐ -SP- Self potential anomaly
- ☐ -AFMAG- Audio-frequency magnetic anomaly ( total intensity )
- ☐ -R- Resistivity anomaly
- ☐ -GR- Gravity anomaly
- ☐

**GEOCHRONOLOGICAL DATA: See page 8 of text**

- ☐ Age dating material sampling site, with reference number
- ☐

**MISCELLANEOUS DATA**

- ■ Trenching, pit
- ☐ Rock quarry
- ☐ Adit
- ☐ Open pit
- ☐ Sand and/or gravel pit
- ☐
- ☐

MAPS
NOT
FILMED

CARTES
OMISES